

Andrea Petri

538 West 120th Street
New York, NY 10027
apetri@phys.columbia.edu

- EDUCATION** *Laurea Specialistica*, Theoretical Physics, June 2011
Scuola Normale Superiore, Pisa
Thesis advisor: Andrea Ferrara
- Master of Arts*, Physics, May 2013
Columbia University
- POSITIONS** *Graduate student researcher, Columbia University Physics Department* 2011-
- PROFESSIONAL ACTIVITIES** Referee for MNRAS
- TEACHING** *Graduate student instructor* 2011-
Columbia University, NY, Physics Department
- Introductory Physics Lab (pre-medical) Fall 2011, Spring 2012
 - Introductory Physics Lab (engineers) Fall 2012, Spring 2013
 - Physical Cosmology (TA, grading), Fall 2012
 - Particle Astrophysics and Cosmology (TA, recitations), Spring 2013
 - EKA Advanced Physics Laboratory (TA), Fall 2013-
 - Particle Astrophysics and Cosmology (TA, grading), Spring 2015
- Instructor* 2011-
Columbia University, NY, Science Honors Program
Introduction to Cosmology for high school students
- PUBLICATIONS**
1. *Supermassive black hole ancestors*
A.Petri, A.Ferrara, R.Salvaterra; Mon. Not. R. Astron. Soc. **422**, 1690-1699 (2012)
 2. *Cosmology with Minkowski Functionals and moments of the weak lensing convergence field*
A.Petri, Z.Haiman, L.Hui, M.May, J.M.Kratochvil; Phys. Rev. D. **88**, 123002 (2013)
 3. *Impact of spurious shear on cosmological parameter estimates from weak lensing observables*
A.Petri, M.May, Z.Haiman, J.M.Kratochvil; Phys. Rev. D. **90**, 123015 (2014)
 4. *Emulating the CFHTLenS weak lensing data: Cosmological constraints from moments and Minkowski functionals*
A.Petri, J. Liu, Z.Haiman, M.May, L.Hui, J.M.Kratochvil; Phys. Rev. D. **91**, 103511 (2015)

TALKS

1. *Cosmology with Minkowski Functionals and moments of the weak lensing convergence field*
27th Symposium on Relativistic Astrophysics, December 8-13, 2013, Dallas, TX
<http://nsm.utdallas.edu/texas2013/proceedings/4/4/b/Petri.pdf>